

September 20, 2006

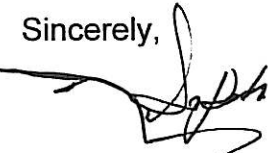
Ms. Darcy Bering
Sonoma County Department of Env. Health
475 Aviation Blvd., Suite 220
Santa Rosa, California 95403

Subject: SCDHS-EHD Site #00002640
3705 Gravenstein Highway South, Sebastopol, California

Dear Ms. Bering:

Enclosed for your review is a copy of SOMA's "Third Quarter 2006 Groundwater Monitoring Report" for the subject property. This report has been uploaded to the State's GeoTracker database.

Thank you for your time in reviewing our report. Please do not hesitate to call me at (925) 734-6400, if you have any questions or comments.

Sincerely,


Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

Enclosure

cc: Mr. Chris Ghanayem w/enclosure





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Third Quarter 2006
Groundwater Monitoring Report

Bill's Deli and Market
3705 Gravenstein Highway, South
Sebastopol, California 95472

September 20, 2006

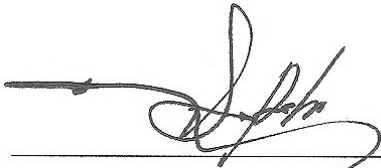
Project 2871

Prepared for
Mr. Chris Ghanayem
3705 Gravenstein Highway, South
Sebastopol, California 95472

Prepared by
SOMA Environmental Engineering, Inc.
6620 Owens Drive, Suite A
Pleasanton, California 94588

Certification

This report has been prepared by SOMA Environmental Engineering, Inc. on behalf of Mr. Chris Ghanayem, the property owner of Bill's Deli and Market, which is located at 3705 Gravenstein Highway South, Sebastopol, California, to comply with the Sonoma County Department of Environmental Health's (SCDEH) and California Regional Water Quality Control Board's requirements for the Third Quarter 2006 groundwater monitoring event.



Mansour Sepehr, Ph.D., P.E.
Principal Hydrogeologist



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1.0 INTRODUCTION

This report has been prepared by SOMA Environmental Engineering, Inc. (SOMA) on behalf of Mr. Chris Ghanayem, the property owner of Bill's Deli and Market, which is located at 3705 Gravenstein Highway South, Sebastopol, California ("the Site"), as shown in Figure 1. The Site is currently an active gasoline station and convenience market. The Site is located in an area consisting primarily of small commercial and rural residential properties.

This report summarizes the results of the Third Quarter 2006 groundwater monitoring event conducted at the Site on August 16 and 17, 2006. Included in this report are the physical and chemical properties measured in the field for each groundwater sample. The physical and chemical properties consisted of measurements of pH, temperature, and electrical conductivity (EC). This report also includes the laboratory analytical results on the groundwater samples.

These activities were performed in accordance with the general guidelines of the Sonoma County Department of Environmental Health (SCDEH) and the California Regional Water Quality Control Board (CRWQCB). Appendix A details the groundwater monitoring procedures used during this monitoring event.

1.1 Previous Activities

In March 1997, DHS Contractors and Touchstone Development removed three 10,000-gallon gasoline single-walled steel underground storage tanks (USTs) from the Site. Product lines and the pump island were also removed during the tank removal activities. Soil samples were collected from the excavation pits. Sonoma County Public Health Department official John Anderson was present during these removal and sampling events. The fuel USTs showed no visible holes or damage. Figure 2 shows the locations of the USTs.

The soil and groundwater samples collected from the bottom of the excavated UST cavity, pump island, and product lines were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, total xylenes (BTEX), Methyl tertiary Butyl Ether (MtBE), and lead. Both TPH-g and MtBE were detected at 160 parts per million in the groundwater sample. MtBE was detected at 190 parts per billion in the soil sample collected from the removed product line adjacent to the pump island.

Since December 2000, the Site has been monitored on a quarterly basis. Historically, TPH-g and BTEX groundwater constituents have remained below the laboratory reporting limit. MtBE groundwater constituents have either been at non-detectable laboratory levels or near non-detectable laboratory levels.

In March 2004, Jim Glomb Geotechnical and Environmental Consulting of Sebastopol, California installed five additional wells (MW-4 through MW-8) at the Site. Figure 2 shows the locations of the monitoring wells.

On December 20, 2005, SOMA oversaw Gregg Drilling & Testing, Inc. (Gregg) install monitoring well MW-9. Due to the rainy weather and the locations of off-site wells MW-10 and MW-11, the installation of these wells was conducted on January 26, 2006. On February 3, 2006, SOMA developed wells MW-9 to MW-11. On February 22, 2006, Harrington Surveys, Inc. (Harrington) horizontally and vertically surveyed the wells in accordance with coordinate values based on the California Coordinate System (NAD-83 and NGVD-88). Harrington's report is included in Appendix B.

2.0 RESULTS

The following sections provide the results of the field measurements and laboratory analyses for the August 16 and 17, 2006 groundwater monitoring event. Well MW-1 was buried with dirt due to construction activities in the area, and therefore was not monitored.

2.1 Field Measurements

Table 1 presents the calculated groundwater elevations, as well as the depths to groundwater for each monitoring well. Depths to groundwater ranged from 4.33 feet in well MW-11 to 9.92 feet in well MW-4. The groundwater elevations ranged from 93.84 feet in well MW-11 to 94.86 feet in well MW-4.

Figure 3 displays the contour map of groundwater elevations. The groundwater flow direction remained south to southwesterly across the Site, however, the gradient decreased to 0.0048 feet/feet.

The field measurements taken during this monitoring event are shown in Appendix B.

Refer to Table 1 for further historical groundwater elevation trends.

2.2 Laboratory Analyses

Based on the approval of the Sonoma County Department of Environmental Health Division, in a letter dated October 25, 2005, the only required constituent for analytical testing during the quarterly monitoring events is MtBE, with the exception of tert-Butyl-Alcohol (TBA) in well MW-8. Therefore, gasoline oxygenates were further tested for in well MW-8. To determine their off-site migration, if any, gasoline oxygenates were also tested for in wells MW-9 to MW-11.

MtBE was below the laboratory reporting limit in all of the groundwater samples collected during this monitoring event, with the exception of the samples collected from wells MW-2, MW-3, MW-7, and MW-8. MtBE was detected in wells MW-2, MW-3, MW-7, and MW-8 at 1.29 ug/L, 1.98 ug/L, 1.76 ug/L, and 26.1 ug/L, respectively. Figure 4 displays the contour map of MtBE concentrations in the groundwater.

All gasoline oxygenates were below the laboratory reporting limit in tested wells MW-8 to MW-11.

Based on the request of the SCDEH, MtBE versus time for all site wells was plotted. The MtBE versus time graphs are shown as Figures 5 and 6. Based on the location of well MW-1, this well has been difficult to locate during all monitoring events. Therefore, due to the inconsistent sampling of this well, a plot of MtBE versus time was not established for well MW-1. As illustrated in Figures 5 and 6, MtBE has shown a decreasing trend in all wells.

Appendix C shows the groundwater laboratory report for this monitoring event. Tables 1 and 2 show the historical groundwater analytical data for the quarterly monitoring events.

3.0 CONCLUSIONS & RECOMMENDATIONS

The findings of the Third Quarter 2006 groundwater monitoring event can be summarized as follows:

- The groundwater flow direction still remains south to southwesterly across the Site.
- MtBE has remained at trace concentrations or below the laboratory reporting limit throughout the Site.
- Based on the analytical results, both MtBE and gasoline oxygenates do not appear to have migrated off-site to wells MW-9 to MW-11 during the Third Quarter 2006.
- SOMA is currently in the process of coordinating efforts to sample the residential well at 3790 Gravenstein Hwy, Sebastopol.
- SOMA recommends a no further action (NFA) status be adopted by Sonoma County for this site.

4.0 REPORT LIMITATIONS

This report is the summary of work done by SOMA, including observations and descriptions of the Site's conditions. It includes the analytical results produced by Pacific Analytical Laboratory for the current groundwater monitoring event. The number and location of the wells were selected to provide the required information, but may not be completely representative of the entire site's conditions. All conclusions and recommendations are based on the results of the laboratory analysis. Conclusions beyond those specifically stated in this document should not be inferred from this report.

SOMA warrants that the services provided were done in accordance with the generally accepted practices in the environmental engineering and consulting field at the time of this sampling.

Tables

Table 1
Historical Groundwater Elevation Data & Analytical Results
TPH-g, BTEX, & MtBE
Bill's Deli and Market
3705 Gravenstein Hwy. South, Sebastopol, California

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B (µg/L)
MW-1	3/30/2004	101.69	4.30	97.39	<50	<0.5	<0.5	<0.5	<1.5	<1.0
	11/16/2004	101.69	NM	NM	NA	NA	NA	NA	NA	NA
	2/18/2005	101.69	NM	NM	NA	NA	NA	NA	NA	NA
	5/6/2005	101.69	NM	NM	NA	NA	NA	NA	NA	NA
	8/5/2005	101.69	NM	NM	NA	NA	NA	NA	NA	NA
	11/5/2005	101.69	NM	NM	NA	NA	NA	NA	NA	NA
	2/15/2006	104.32	2.04	102.28	NA	NA	NA	NA	NA	<0.5
	5/18/2006	104.32	3.33	100.99	NA	NA	NA	NA	NA	<0.5
	8/17/2006	104.32	NM	NM	NA	NA	NA	NA	NA	NA
MW-2	3/30/2004	101.08	2.90	98.18	<50	<0.5	<0.5	<0.5	<1.5	11
	11/16/2004	101.08	10.09	90.99	<50	<0.5	<0.5	<0.5	<1	49
	2/18/2005	101.08	3.02	98.06	<200	<0.5	<0.5	<0.5	<1.0	12.40
	5/6/2005	101.08	4.00	97.08	<200	<0.5	<0.5	<0.5	<1.0	3.66
	8/5/2005	101.08	7.29	93.79	<50	<0.5	<2.0	<0.5	<1.0	1.24
	11/5/2005	101.08	9.63	91.45	NA	6	NA	NA	NA	12
	2/15/2006	103.56	2.35	101.21	NA	NA	NA	NA	NA	2.53
	5/18/2006	103.56	3.06	100.50	NA	NA	NA	NA	NA	2.54
	8/17/2006	103.56	9.00	94.56	NA	NA	NA	NA	NA	1.29

Table 1
Historical Groundwater Elevation Data & Analytical Results
TPH-g, BTEX, & MtBE
Bill's Deli and Market
3705 Gravenstein Hwy. South, Sebastopol, California

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B (µg/L)
MW-3	3/30/2004	100.82	3.75	97.07	<50	<0.5	<0.5	<0.5	<1.5	15
	11/16/2004	100.82	9.87	90.95	<50	<0.5	<0.5	<0.5	<1	126
	2/18/2005	100.82	2.56	98.26	<200	<0.5	<0.5	<0.5	<1.0	4.70
	5/6/2005	100.82	2.92	97.90	<200	<0.5	<0.5	<0.5	<1.0	6.45
	8/5/2005	100.82	7.61	93.21	<50	<0.5	<2.0	<0.5	<1.0	9.96
	11/5/2005	100.82	9.60	91.22	NA	NA	NA	NA	NA	2.60
	2/15/2006	103.22	2.20	101.02	NA	NA	NA	NA	NA	0.86
	5/18/2006	103.22	3.11	100.11	NA	NA	NA	NA	NA	1.01
	8/17/2006	103.22	8.69	94.53	NA	NA	NA	NA	NA	1.98
MW-4	3/30/2004	102.36	2.75	99.61	<50	<0.5	<0.5	<0.5	<1.5	<1.0
	11/16/2004	102.36	11.39	90.97	<50	<0.5	<0.5	<0.5	<1	<0.5
	2/18/2005	102.36	2.04	100.32	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	5/6/2005	102.36	3.79	98.57	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	8/5/2005	102.36	8.95	93.41	<50	<0.5	<2.0	<0.5	<1.0	<0.5
	11/5/2005	102.36	11.08	91.28	NA	NA	NA	NA	NA	<0.5
	2/15/2006	104.78	2.24	102.54	NA	NA	NA	NA	NA	<0.5
	5/18/2006	104.78	4.15	100.63	NA	NA	NA	NA	NA	<0.5
	8/17/2006	104.78	9.92	94.86	NA	NA	NA	NA	NA	<0.5
MW-5	3/30/2004	100.60	3.60	97.00	<50	<0.5	<0.5	<0.5	<1.5	<1.0
	11/16/2004	100.60	NM	NM	NA	NA	NA	NA	NA	NA
	2/18/2005	100.60	3.46	97.14	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	5/6/2005	100.60	3.75	96.85	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	8/5/2005	100.60	4.69	95.91	<50	<0.5	<2.0	<0.5	<1.0	<0.5
	11/5/2005	100.60	9.46	91.14	NA	NA	NA	NA	NA	<0.5
	2/15/2006	102.98	2.31	100.67	NA	NA	NA	NA	NA	<0.5
	5/18/2006	102.98	3.64	99.34	NA	NA	NA	NA	NA	<0.5
	8/17/2006	102.98	8.64	94.34	NA	NA	NA	NA	NA	<0.5

Table 1
Historical Groundwater Elevation Data & Analytical Results
TPH-g, BTEX, & MtBE
Bill's Deli and Market
3705 Gravenstein Hwy. South, Sebastopol, California

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B (µg/L)
MW-6	3/30/2004	99.72	3.85	95.87	<50	<0.5	<0.5	<0.5	<1.5	<1.0
	11/16/2004	99.72	8.76	90.96	<50	<0.5	<0.5	<0.5	<1	<0.5
	2/18/2005	99.72	1.93	97.79	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	5/6/2005	99.72	2.77	96.95	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	8/5/2005	99.72	6.15	93.57	<50	<0.5	<2.0	<0.5	<1.0	<0.5
	11/5/2005	99.72	8.58	91.14	NA	NA	NA	NA	NA	<0.5
	2/15/2006	102.16	1.92	100.24	NA	NA	NA	NA	NA	<0.5
	5/18/2006	102.16	3.26	98.90	NA	NA	NA	NA	NA	<0.5
	8/17/2006	102.16	7.34	94.82	NA	NA	NA	NA	NA	<0.5
MW-7	3/30/2004	99.30	4.10	95.20	<50	<0.5	<0.5	<0.5	<1.5	<1.0
	11/16/2004	99.30	8.35	90.95	<50	<0.5	<0.5	<0.5	<1	4.8
	2/18/2005	99.30	2.09	97.21	<200	<0.5	<0.5	<0.5	<1.0	0.86
	5/6/2005	99.30	2.40	96.90	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	8/5/2005	99.30	6.39	92.91	<50	<0.5	<2.0	<0.5	<1.0	1.31
	11/5/2005	99.30	8.41	90.89	NA	NA	NA	NA	NA	2.35
	2/15/2006	101.86	1.60	100.26	NA	NA	NA	NA	NA	0.75
	5/17/2006	101.86	2.67	99.19	NA	NA	NA	NA	NA	0.90
	8/16/2006	101.86	7.38	94.48	NA	NA	NA	NA	NA	1.76
MW-8	3/30/2004	98.78	3.20	95.58	<50	<0.5	<0.5	<0.5	<1.5	44
	11/16/2004	98.78	6.44	92.34	<50	<0.5	<0.5	<0.5	<1	59
	2/18/2005	98.78	2.53	96.25	<200	<0.5	<0.5	<0.5	<1.0	69
	5/6/2005	98.78	3.24	95.54	<200	<0.5	<0.5	<0.5	<1.0	61.8
	8/5/2005	98.78	6.42	92.36	<50	<0.5	<2.0	<0.5	<1.0	38
	11/5/2005	98.78	6.32	92.46	NA	NA	NA	NA	NA	38.6
	2/15/2006	101.23	2.21	99.02	NA	NA	NA	NA	NA	31
	5/17/2006	101.23	3.61	97.62	NA	NA	NA	NA	NA	27

Table 1
Historical Groundwater Elevation Data & Analytical Results
TPH-g, BTEX, & MtBE
Bill's Deli and Market
3705 Gravenstein Hwy. South, Sebastopol, California

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B (µg/L)
	8/16/2006	101.23	6.78	94.45	NA	NA	NA	NA	NA	26.1
MW-9	2/15/2006	100.76	7.40	93.36	NA	NA	NA	NA	NA	0.55
	5/17/2006	100.76	3.00	97.76	NA	NA	NA	NA	NA	<0.5
	8/16/2006	100.76	6.78	93.98	NA	NA	NA	NA	NA	<0.50
MW-10	2/15/2006	98.95	3.95	95.00	NA	NA	NA	NA	NA	<0.5
	5/17/2006	98.95	2.62	96.33	NA	NA	NA	NA	NA	<0.5
	8/16/2006	98.95	5.02	93.93	NA	NA	NA	NA	NA	<0.50
MW-11	2/15/2006	98.17	7.60	90.57	NA	NA	NA	NA	NA	<0.5
	5/17/2006	98.17	2.08	96.09	NA	NA	NA	NA	NA	<0.5
	8/16/2006	98.17	4.33	93.84	NA	NA	NA	NA	NA	<0.50

Notes:

The first time SOMA monitored this site was in the Fourth Quarter 2004.

The first time SOMA monitored wells off-site wells MW-9 to MW-11 was in the First Quarter 2006.

Wells MW-9 to MW-11 were installed by SOMA in December 2005.

By request of Sonoma County Department of Health Services only MtBE was required as of the Fourth Quarter 2005.

1. All site wells resurveyed by Harrington Surveys, Inc in February 2006.

NA: Not Analyzed. Well MW-1 was buried due to construction activities, however, the well was uncovered and has monitored since Feb. 2006.

NA: Not Analyzed. Well MW-5 was inaccessible due to blockage at 5 feet bgs, however, the blockage was cleared and has monitored since Feb. 2005.

NM: Not Measured.

Table 2
Historical Groundwater Analytical Results
Gasoline Oxygenates, Ethanol, Lead Scavengers
Bill's Deli and Market
3705 Gravenstein Hwy. South, Sebastopol, California

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	3/30/2004	<25	<1.0	<1.0	<1.0	NA	NA	NA
	11/16/2004	NA	NA	NA	NA	NA	NA	NA
	2/18/2005	NA	NA	NA	NA	NA	NA	NA
	5/6/2005	NA	NA	NA	NA	NA	NA	NA
	8/5/2005	NA	NA	NA	NA	NA	NA	NA
	11/5/2005	NA	NA	NA	NA	NA	NA	NA
	2/16/2006	NA	NA	NA	NA	NA	NA	NA
	5/18/2006	NA	NA	NA	NA	NA	NA	NA
	8/16/2006	NA	NA	NA	NA	NA	NA	NA
MW-2	3/30/2004	<25	<1.0	<1.0	<1.0	NA	NA	NA
	11/16/2004	<2.5	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	2/18/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	5/6/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/5/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/5/2005	NA	NA	NA	NA	NA	NA	NA
	2/16/2006	NA	NA	NA	NA	NA	NA	NA
	5/18/2006	NA	NA	NA	NA	NA	NA	NA
	8/17/2006	NA	NA	NA	NA	NA	NA	NA
MW-3	3/30/2004	<25	<1.0	<1.0	<1.0	NA	NA	NA
	11/16/2004	<2.5	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	2/18/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	5/6/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/5/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/5/2005	NA	NA	NA	NA	NA	NA	NA
	2/16/2006	NA	NA	NA	NA	NA	NA	NA
	5/18/2006	NA	NA	NA	NA	NA	NA	NA
	8/17/2006	NA	NA	NA	NA	NA	NA	NA
MW-4	3/30/2004	<25	<1.0	<1.0	<1.0	NA	NA	NA
	11/16/2004	<2.5	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	2/18/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	5/6/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/5/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/5/2005	NA	NA	NA	NA	NA	NA	NA
	2/16/2006	NA	NA	NA	NA	NA	NA	NA
	5/18/2006	NA	NA	NA	NA	NA	NA	NA
	8/17/2006	NA	NA	NA	NA	NA	NA	NA

Table 2
Historical Groundwater Analytical Results
Gasoline Oxygenates, Ethanol, Lead Scavengers
Bill's Deli and Market
3705 Gravenstein Hwy. South, Sebastopol, California

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-5	3/30/2004	<25	<1.0	<1.0	<1.0	NA	NA	NA
	11/16/2004	NA	NA	NA	NA	NA	NA	NA
	2/18/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	5/6/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/5/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/5/2005	NA	NA	NA	NA	NA	NA	NA
	2/16/2006	NA	NA	NA	NA	NA	NA	NA
	5/18/2006	NA	NA	NA	NA	NA	NA	NA
	8/17/2006	NA	NA	NA	NA	NA	NA	NA
MW-6	3/30/2004	<25	<1.0	<1.0	<1.0	NA	NA	NA
	11/16/2004	<2.5	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	2/18/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	5/6/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/5/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/5/2005	NA	NA	NA	NA	NA	NA	NA
	2/16/2006	NA	NA	NA	NA	NA	NA	NA
	5/18/2006	NA	NA	NA	NA	NA	NA	NA
	8/17/2006	NA	NA	NA	NA	NA	NA	NA
MW-7	3/30/2004	<25	<1.0	<1.0	<1.0	NA	NA	NA
	11/16/2004	<2.5	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	2/18/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	5/6/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/5/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/5/2005	NA	NA	NA	NA	NA	NA	NA
	2/16/2006	NA	NA	NA	NA	NA	NA	NA
	5/17/2006	NA	NA	NA	NA	NA	NA	NA
	8/16/2006	NA	NA	NA	NA	NA	NA	NA
MW-8	3/30/2004	<25	<1.0	<1.0	<1.0	NA	NA	NA
	11/16/2004	<2.5	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	2/18/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	5/6/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/5/2005	11.60	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/5/2005	<10	NA	NA	NA	NA	NA	NA
	2/16/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5
	5/17/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5
	8/16/2006	<10	NA	NA	NA	NA	NA	NA

Table 2
Historical Groundwater Analytical Results
Gasoline Oxygenates, Ethanol, Lead Scavengers
Bill's Deli and Market
3705 Gravenstein Hwy. South, Sebastopol, California

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-9	2/16/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5
	5/17/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5
	8/16/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5
MW-10	2/16/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5
	5/17/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5
	8/16/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5
MW-11	2/16/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5
	5/17/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5
	8/16/2006	<10	<0.5	<0.5	<2.0	NA	<0.5	<0.5

Notes:

The first time SOMA monitored this site was in the Fourth Quarter 2004.

The first time SOMA monitored wells off-site wells MW-9 to MW-11 was in the First Quarter 2006.

Wells MW-9 to MW-11 were installed by SOMA in December 2005.

NA: Not Analyzed. Well MW-5 was inaccessible due to blockage at 5 feet bgs, however, the blockage was cleared and gasoline oxygenates were tested from 2/2005 to 8/2005.

By request of Sonoma County Department of Health Services,

TBA was required in only the sample collected from well MW-8 as of the Fourth Quarter 2005.

Gasoline Oxygenates

TBA: tertiary Butyl Alcohol

DIPE: Diisopropyl Ether

ETBE: Ethyl tertiary Butyl Ether

TAME: Methyl tertiary Amyl Ether

Alcohols

Ethanol

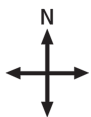
Methanol Tested for in Fourth Quarter 2004, see Monitoring Report for results.

Lead Scavengers

1,2-DCA: 1,2-Dichloroethane

EDB: 1,2-Dibromoethane

Figures



approximate scale in feet

0 70 140

Figure 1: Site vicinity map.

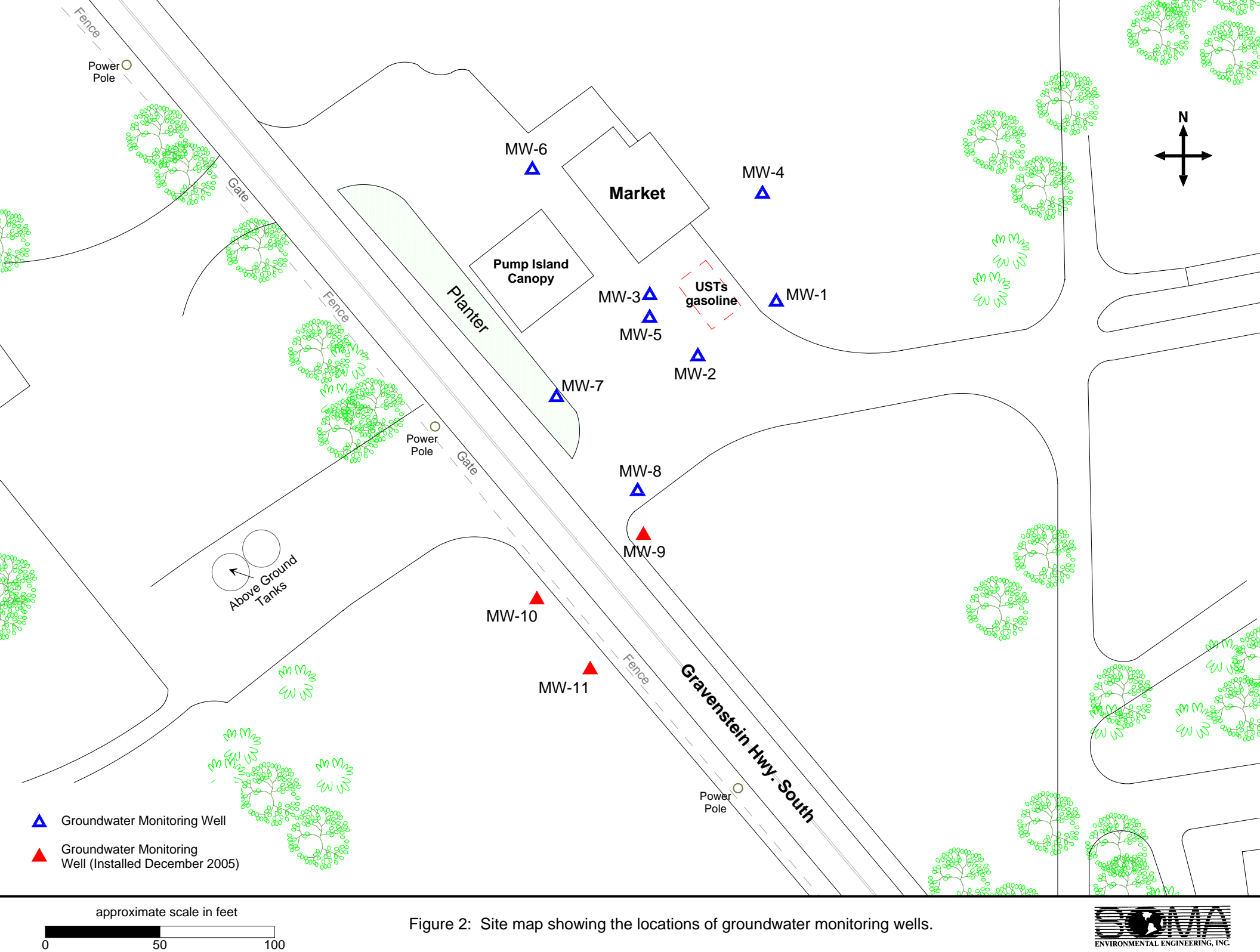


Figure 2: Site map showing the locations of groundwater monitoring wells.

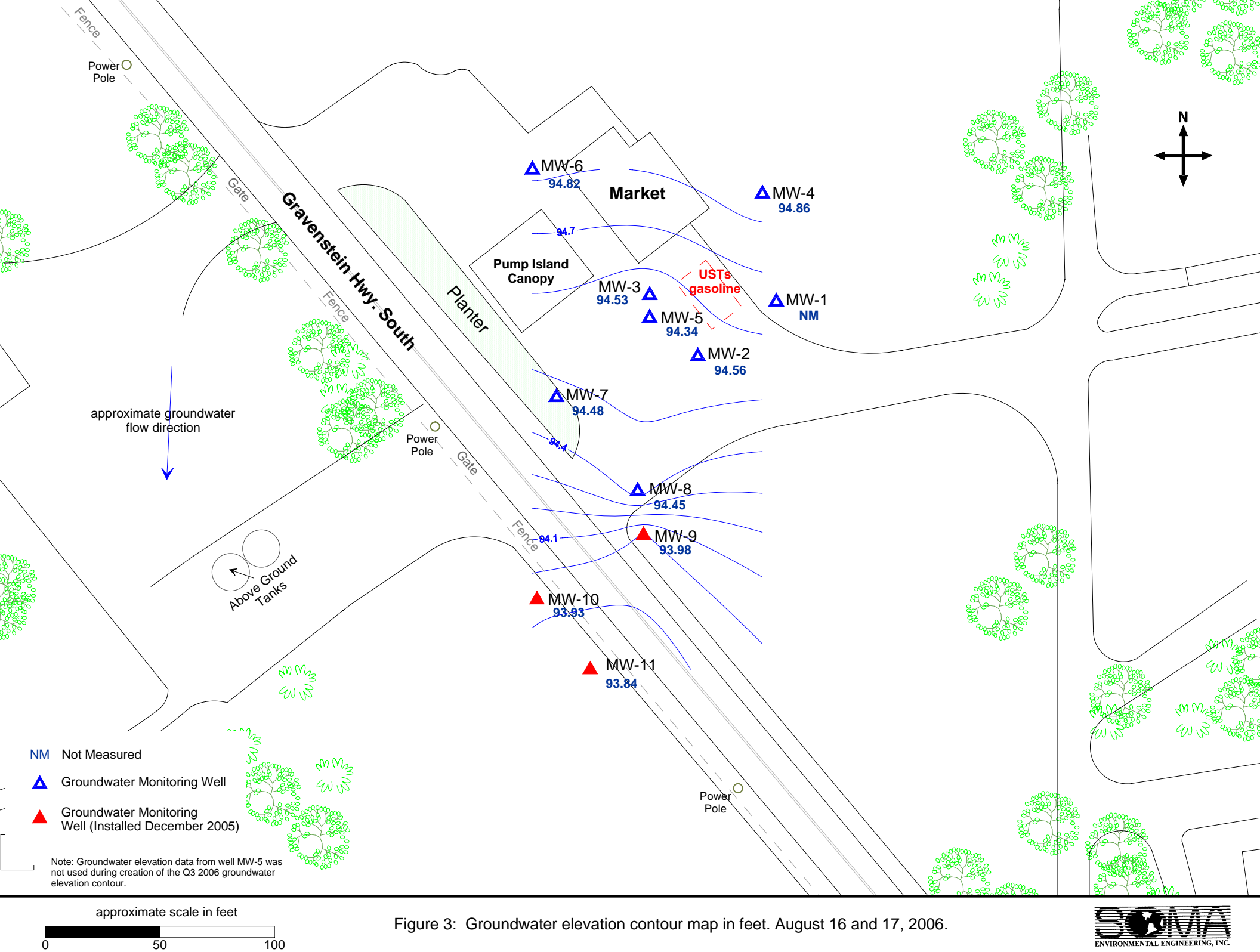


Figure 3: Groundwater elevation contour map in feet. August 16 and 17, 2006.

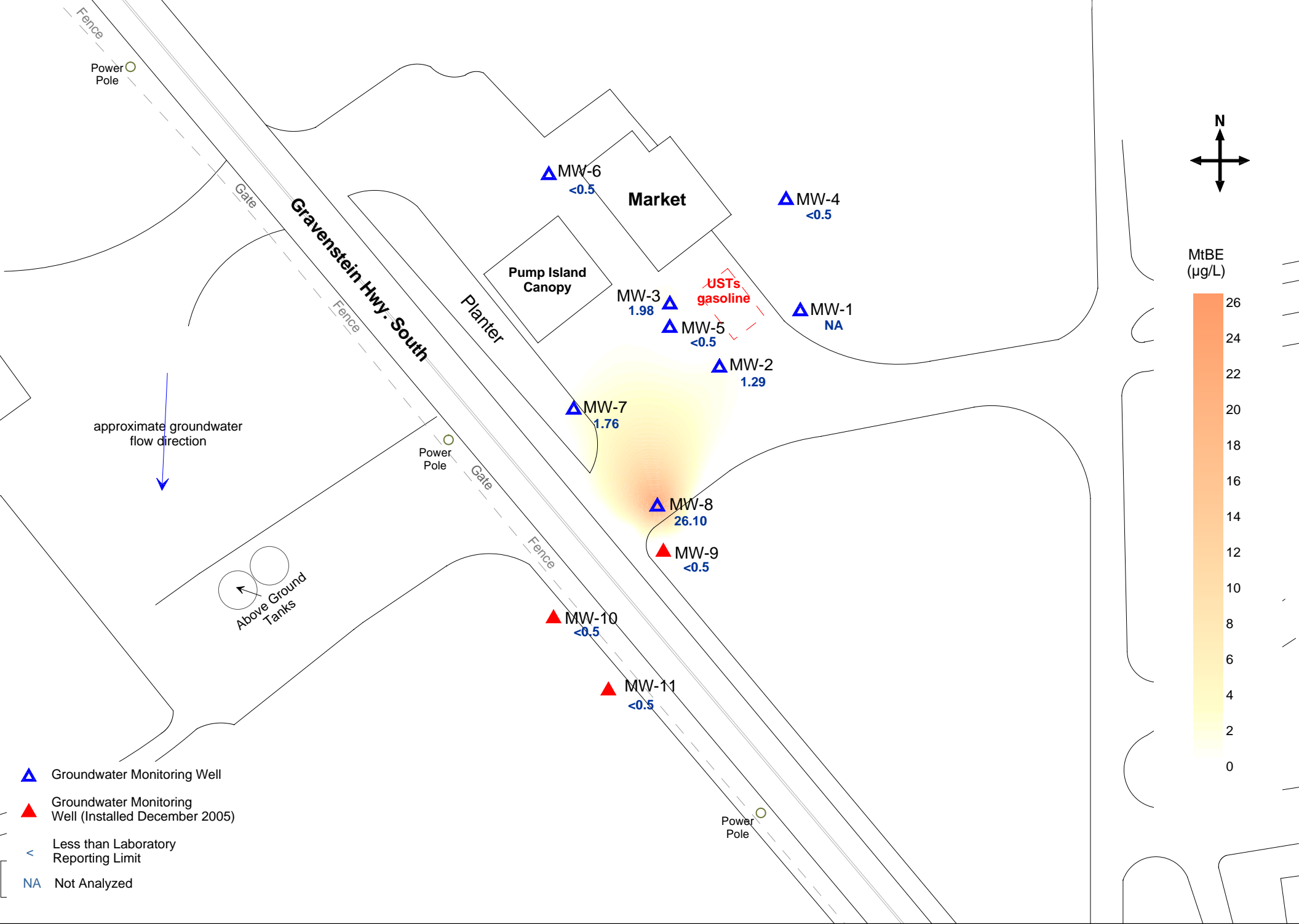


Figure 4: Contour map of MtBE concentrations in the groundwater (EPA Method 8260B). August 17 and 18, 2006.

Figure 5
MtBE vs Time for Wells MW-2 to MW-5
Bill's Deli and Market
3705 Gravenstein Hwy., South, Sebastopol, Ca

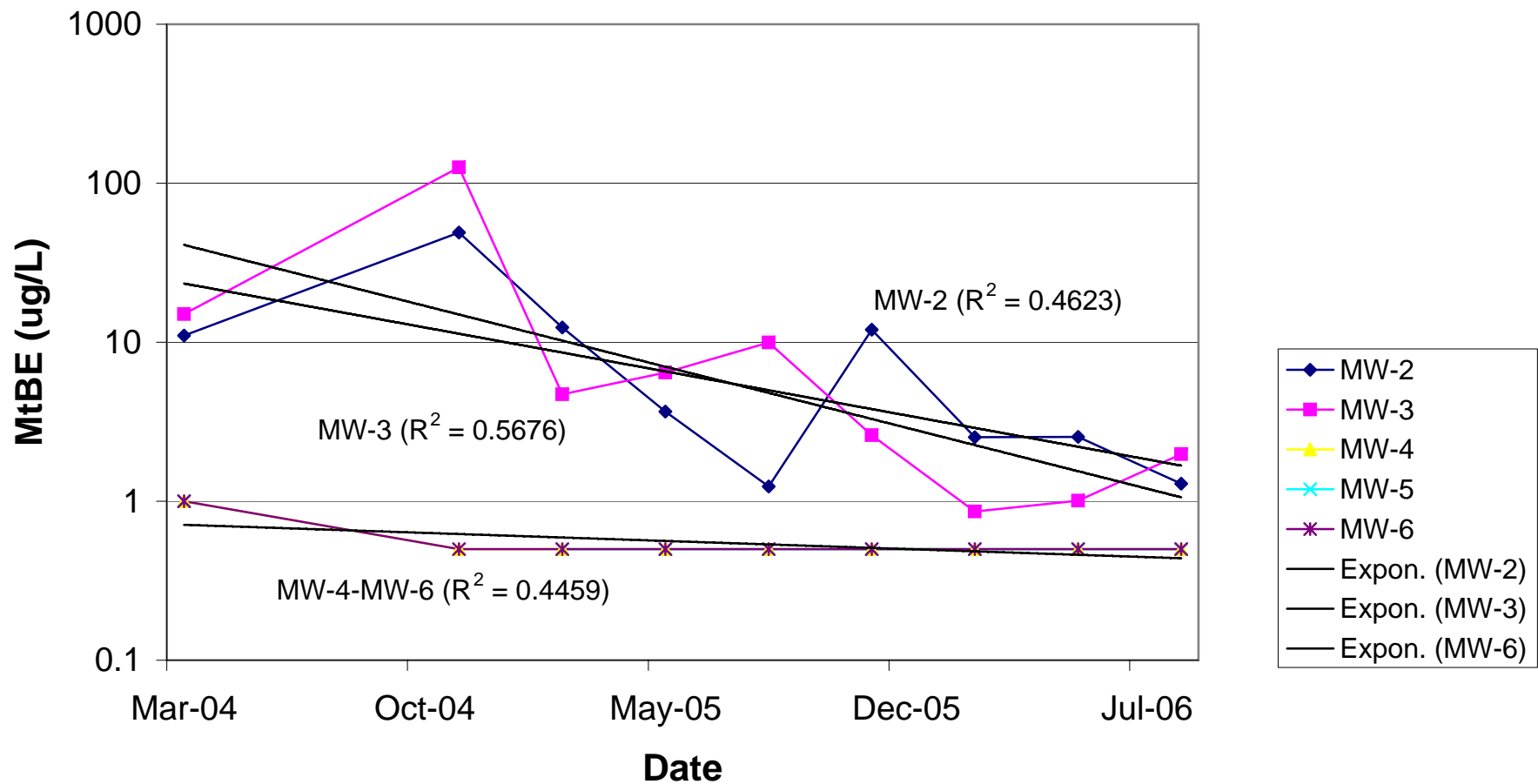
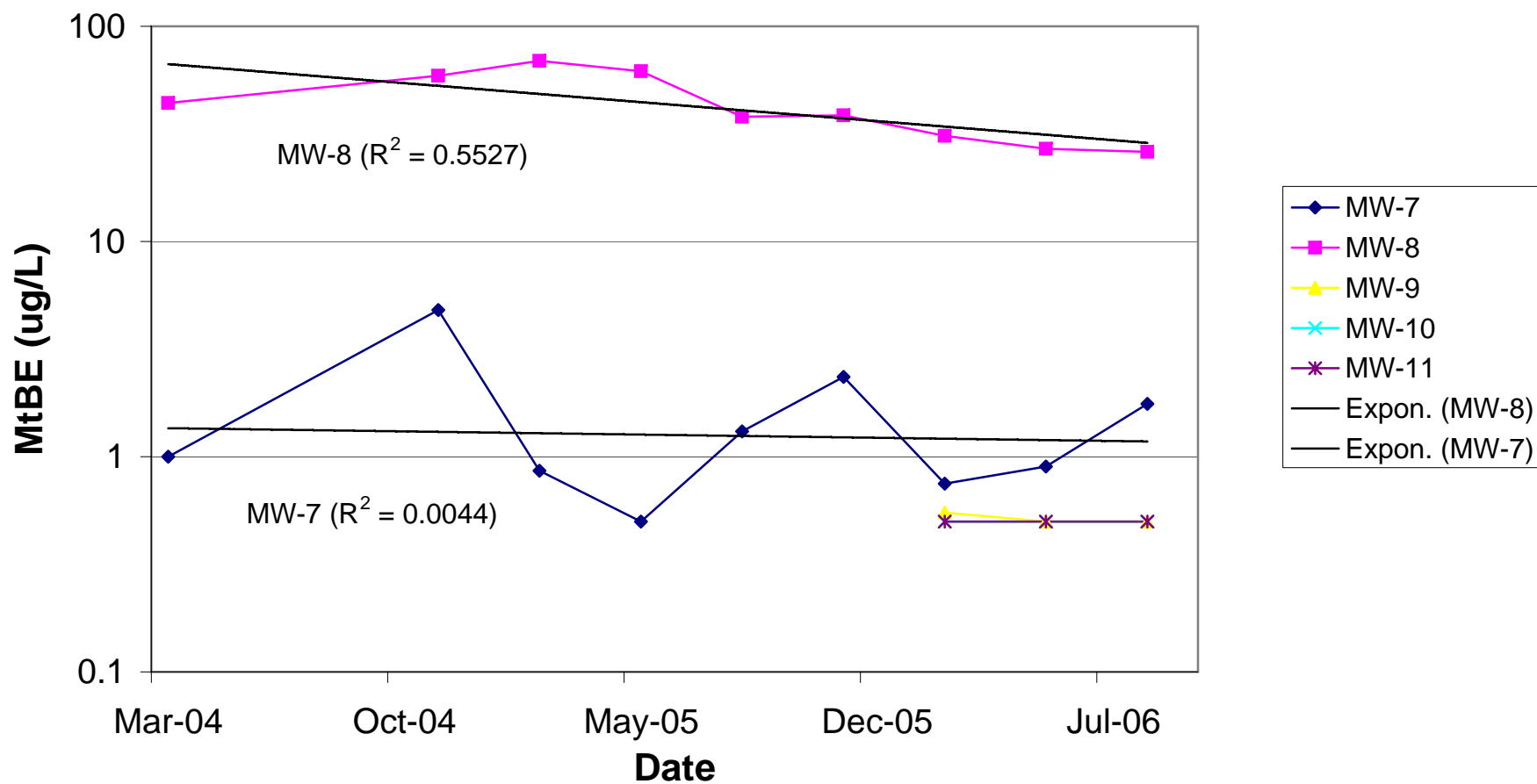


Figure 6
MtBE vs Time for Wells MW-7 to MW-11
Bills Deli & Market
3705 Gravenstein Hwy. South, Sebastopol, CA



Appendix A

SOMA's Groundwater Monitoring Procedures

Field Activities

On August 16, 2006, a total of ten wells (MW-2 to MW-11) were measured for depth to groundwater. On August 16 and 17, 2006, additional field measurements and grab groundwater samples were collected from all of the monitoring wells. This monitoring event was conducted in accordance with the procedures and guidelines of the SCDEH and the CRWQCB.

Prior to measuring the groundwater depth at each well, equalization with the surrounding aquifer was achieved. The well cap was removed from each well, and the pressure in each well was then allowed to dissipate. This allowed for a more stable water table level within the well. After a few minutes, and once the water level in the well stabilized, the depth to groundwater in each monitoring well was measured from the top of the casing to the nearest 0.01 foot using an electric sounder.

The top of the casing elevation data and the depth to groundwater in each monitoring well were used to calculate the groundwater elevation. The top of casing elevation was based on elevation data of 141.99 feet NGVD88. The survey datum was based on California Coordinate System, Zone 2, NAD 83. Appendix B shows the survey datum.

Prior to the collection of samples, each well was purged using a battery operated 2-inch diameter pump (Model ES-60 DC). In order to ensure that the final samples were in equilibrium with (and representative of) the surrounding groundwater, during purging, several samples were taken for field measurements of pH, temperature and EC. The field parameters were measured using a Hanna pH, conductivity, and temperature meter. The equipment was calibrated at the Site using standard solutions and procedures provided by the manufacturer.

Appendix B details the field measurements taken during the monitoring event.

The purging of the wells continued until the parameters for pH, temperature and EC stabilized or three casing volumes were purged. A disposable polyethylene bailer was used to collect sufficient samples from each well for laboratory analyses. The groundwater sample was transferred to three 40-mL VOA vials and preserved with hydrochloric acid. The vials were then sealed to prevent the development of air bubbles within the headspace.

After the groundwater samples were collected they were placed on ice in an ice chest and maintained at 4⁰C. A chain of custody (COC) form was written for all the samples. After the sampling was complete, on August 17, 2006, SOMA's field crew delivered the groundwater samples along with the COC form to Pacific Analytical Laboratory in Alameda, California.

Laboratory Analysis

Pacific Analytical Laboratory, in Alameda, California, a state-certified laboratory, analyzed all of the groundwater samples for MtBE, and gasoline oxygenates for wells (MW-8 to MW-11). All referenced constituents were analyzed using EPA Method 8260B.

Appendix B

Table of Elevations & Coordinates on Monitoring Wells
Measured by Harrington Surveys, Inc.,
and
Field Measurements of Physical and Chemical
Parameters of Groundwater Samples

Harrington Surveys Inc.

Land Surveying & Mapping

2278 Larkey Lane, Walnut Creek, Ca. 94597 Phone (925)935-7228 Fax (925)935-5118
Cell (925)788-7359 E-Mail (ben5132@pacbell.net)

SOMA ENVIRONMENTAL ENGINEERING
6620 OWENS DR. # A
PLEASANTON, CA. 994588

FEB. 22, 2006

ATTN: ELENA

3705 GRAVENSTEIN HWY. S.
SEBASTOPOL CA.

SURVEY REPORT

CONTROLLING POINTS FROM SURVEY BY HARRINGTON SURVEYS INC., DATED 02-22-06

CONTROL PT.# RTCM-Ref 00001, CALIFORNIA COORDINATE SYSTEM, ZONE 2, NAD 83.

NORTH 1,923,182.24 - EAST 6,347,713.99, LAT. N38°26'26.398182" LONG.
W122°44'49.151219".
ELEVATION 141.99, NGVD 88,

CONTROL PT. # BM37 M, CALIFORNIA COORDINATE SYSTEM, ZONE 2, NAD 83.

NORTH 1,908,814.18 - EAST 6,325,739.51 LAT N38°24'02.495544", LONG.
W122°49'23.696136".
ELEVATION 80.79, NGVD 88,

INSTRUMENTATION:

TRIMBLE GPS, MODEL 5800 AND LEICA TCA 1800, 1" HORZ. & VERT.
OBSERVATION: EPOCH = 180.

FIELD SURVEY: FEB. 22, 2006.

BEN HARRINGTON
PLS 5132



3705 GRAVENSTEIN HWY S
SEBASTOPOL, CA.
MONITORING WELLS

HARRINGTON SURVEYS INC.
2278 LARKEY LANE
WALNUT CREEK CA. 94597

JOB # 2626
FEB. 22, 2006

DESCRIPTION	NORTH	EAST	ELEV.	LATITUDE ° ' " N.	LONGITUDE ° ' " W.	LATITUDE DEC.° N.	LONGITUDE DEC.° W.
BM37 M	1908814.18	6325739.51	80.79	38 24 2.495544 N	122 49 23.696136 W	38.406932067 N	122.823248927 W
MW 1 NOTCH	1895108.56	6338406.62	104.32	38 21 48.121599 N	122 46 43.105958 W	38.363367111 N	122.778640544 W
MW 1 PAV	1895107.90	6338406.95	104.62	38 21 48.115126 N	122 46 43.101680 W	38.363365313 N	122.761972689 W
MW 1 PUNCH	1895108.72	6338406.51	104.52	38 21 48.123127 N	122 46 43.107264 W	38.363367535 N	122.778640907 W
MW 2 NOTCH	1895082.79	6338370.10	103.56	38 21 47.863738 N	122 46 43.561694 W	38.363295483 N	122.778767137 W
MW 2 PAV	1895083.51	6338370.11	103.72	38 21 47.870913 N	122 46 43.561599 W	38.363297476 N	122.778767111 W
MW 2 PUNCH	1895082.94	6338369.77	103.71	38 21 47.865221 N	122 46 43.565746 W	38.363295895 N	122.778768263 W
MW 3 NOTCH	1895110.21	6338351.89	103.22	38 21 48.133241 N	122 46 43.793237 W	38.363370345 N	122.778831455 W
MW 3 PAV	1895110.38	6338351.59	103.48	38 21 48.134958 N	122 46 43.797017 W	38.363370822 N	122.778832505 W
MW 3 PUNCH	1895110.37	6338351.77	103.49	38 21 48.134865 N	122 46 43.794709 W	38.363370796 N	122.778831864 W
MW 4 NOTCH	1895155.10	6338400.94	104.78	38 21 48.581128 N	122 46 43.182262 W	38.363494758 N	122.778661739 W
MW 4 PAV	1895154.46	6338400.78	104.97	38 21 48.574778 N	122 46 43.184230 W	38.363492994 N	122.778662286 W
MW 4 PUNCH	1895155.31	6338400.84	105.02	38 21 48.583234 N	122 46 43.183472 W	38.363495343 N	122.778662076 W
MW 5 NOTCH	1895100.08	6338350.97	102.98	38 21 48.033062 N	122 46 43.803686 W	38.363342517 N	122.778834357 W
MW 5 PAV	1895099.78	6338350.09	103.47	38 21 48.029976 N	122 46 43.814682 W	38.363341660 N	122.778837412 W
MW 5 PUNCH	1895100.23	6338350.73	103.44	38 21 48.034486 N	122 46 43.806679 W	38.363342913 N	122.778835189 W
MW 6 NOTCH	1895166.15	6338293.98	102.16	38 21 48.681278 N	122 46 44.526314 W	38.363522577 N	122.779035087 W
MW 6 PAV	1895165.38	6338294.38	102.45	38 21 48.673746 N	122 46 44.521152 W	38.363520485 N	122.779033653 W
MW 6 PUNCH	1895166.50	6338293.71	102.41	38 21 48.684713 N	122 46 44.529758 W	38.363523531 N	122.779036044 W
MW 7 NOTCH	1895066.22	6338308.09	101.86	38 21 47.694705 N	122 46 44.338438 W	38.363248529 N	122.778982899 W
MW 7 PAV	1895065.57	6338308.29	102.23	38 21 47.688353 N	122 46 44.335838 W	38.363246765 N	122.778982177 W
MW 7 PUNCH	1895066.37	6338307.93	102.14	38 21 47.696173 N	122 46 44.340430 W	38.363248937 N	122.778983453 W
MW 8 NOTCH	1895017.00	6338346.08	101.23	38 21 47.211430 N	122 46 43.856079 W	38.363114286 N	122.778848911 W
MW 8 PAV	1895017.30	6338346.51	101.53	38 21 47.214393 N	122 46 43.850759 W	38.363115109 N	122.778847433 W
MW 8 PUNCH	1895017.22	6338345.88	101.46	38 21 47.213542 N	122 46 43.858669 W	38.363114873 N	122.778849630 W
MW 9 NOTCH	1894997.31	6338349.41	100.76	38 21 47.017098 N	122 46 43.812267 W	38.363060305 N	122.778836741 W
MW 9 PAV	1894996.74	6338350.16	101.06	38 21 47.011531 N	122 46 43.802750 W	38.363058759 N	122.778834097 W
MW 9 PUNCH	1894997.58	6338349.21	101.12	38 21 47.019752 N	122 46 43.814754 W	38.363061042 N	122.778837432 W
MW 10 NOTCH	1894963.64	6338292.64	98.95	38 21 46.679447 N	122 46 44.521269 W	38.362966513 N	122.779033686 W
MW 10 PAV	1894962.90	6338292.78	99.23	38 21 46.672103 N	122 46 44.519462 W	38.362964473 N	122.779033184 W
MW 10 PUNCH	1894964.17	6338292.48	99.31	38 21 46.684632 N	122 46 44.523328 W	38.362967953 N	122.779034258 W
MW 11 NOTCH	1894934.05	6338313.45	98.17	38 21 46.388738 N	122 46 44.256813 W	38.362885761 N	122.778960226 W
MW 11 PAV	1894933.23	6338313.54	98.48	38 21 46.380599 N	122 46 44.255669 W	38.362883500 N	122.778959908 W
MW 11 PUNCH	1894934.42	6338313.23	98.52	38 21 46.392358 N	122 46 44.259710 W	38.362886766 N	122.778961031 W
RTCM-Ref 0001	1923182.24	6347713.99	141.99	38 26 26.398182 N	122 44 49.151219 W	38.440666162 N	122.746986450 W



Well No.: MW-2
 Casing Diameter: 2 inches
 Depth of Well: 24.70 feet
 Top of Casing Elevation: 103.56 feet
 Depth to Groundwater: 9.00 feet
 Groundwater Elevation: 94.56 feet
 Water Column Height: 15.70 feet
 Purged Volume: 12 gallons

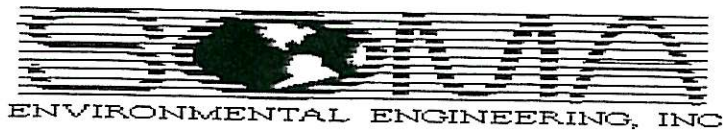
Project No.: 2871
 Address: 3705 Gravenstein Hwy, South
 Sebastopol, CA
 Date: August ~~18~~ 17, 2006
 Sampler: ~~John Lohman~~ 2024 PERIM
 Masoud Marsai

Purging Method: Bailer ☐ Pump ☒
 Sampling Method: Bailer ☒ Pump ☐

Color: No ☐ Yes ☒ Describe: cloudy
 Sheen: No ☒ Yes ☐ Describe: _____
 Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Vol	pH	Temp (°C)	E.C. (μS/cm)
	(gallons)			
11:53 AM	started purging well			
11:55 AM	3	5.40	25.30	1130
11:58 AM	6	5.35	23.00	1170
12:01 PM	10	5.32	21.00	1150
12:04 PM	12	5.35	21.80	1150
12:06 PM	samples			



Well No.: MW-3
 Casing Diameter: 2 inches
 Depth of Well: 8.69 feet 24.90
 Top of Casing Elevation: 103.22 feet
 Depth to Groundwater: 8.69 feet
 Groundwater Elevation: 94.53 feet
 Water Column Height: 16.21 feet
 Purged Volume: _____ gallons

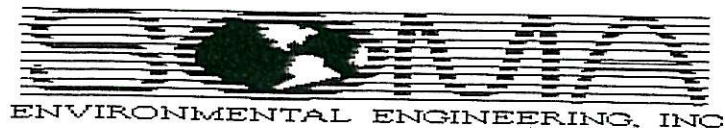
Project No.: 2871
 Address: 3705 Gravenstein Hwy, South
 Sebastopol, CA
 Date: August ~~16~~ 17, 2006
 Sampler: John Lohman TONY PERINI
 Masoud Marsai

Purging Method: Bailer ☐ Pump ☒
 Sampling Method: Bailer ☒ Pump ☐

Color: No ☒ Yes ☐ Describe: _____
 Sheen: No ☒ Yes ☐ Describe: _____
 Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Vol	pH	Temp	E.C.
	(gallons)		(°C)	(µS/cm)
11:40 Am	started purging well			
11:43 Am	4.0	5.62	24.50	1190
11:46 Am	7	5.59	22.40	1100
11:49 Am	11	5.59	22.00	1150
11:50 Am	samples			



Well No.: MW-4
 Casing Diameter: 2 inches
 Depth of Well: 24.65 feet
 Top of Casing Elevation: 104.78 feet
 Depth to Groundwater: 9.92 feet
 Groundwater Elevation: 94.86 feet
 Water Column Height: 14.73 feet
 Purged Volume: _____ gallons

Project No.: 2871
 Address: 3705 Gravenstein Hwy, South
 Sebastopol, CA
 Date: August ~~16~~ 17, 2006
 Sampler: ~~John Lehman~~ Tony Pelini
 Masoud Marsai

Purging Method: Bailer ☐ Pump ☒

Sampling Method: Bailer ☒ Pump ☐

Color: No ☐ Yes ☒

Describe: cloudy

Sheen: No ☒ Yes ☐

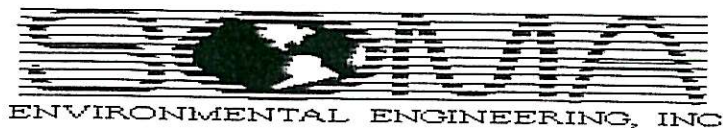
Describe: _____

Odor: No ☒ Yes ☐

Describe: _____

Field Measurements:

Time	Vol	pH	Temp	E.C.
	(gallons)		(°C)	(μS/cm)
1:12 PM	started purging well			
1:14 PM	2.5	5.66	20.00	89
1:17 PM	6	5.70	19.00	87
1:20 PM	11	5.65	17.90	87
1:23 PM	15	6.13	18.80	102
1:25 PM	samples			



Well No.: MW-5
 Casing Diameter: 2 inches
 Depth of Well: 48.70 feet
 Top of Casing Elevation: 102.98 feet
 Depth to Groundwater: 8.64 feet
 Groundwater Elevation: 94.34 feet
 Water Column Height: 40.06 feet
 Purged Volume: _____ gallons

Project No.: 2871
 Address: 3705 Gravenstein Hwy, South
 Sebastopol, CA
 Date: August 18, 2006
 Sampler: ~~John Lohman~~ TONY PERINI
 Masoud Marsai

Purging Method: Bailer ☐ Pump ☒

Sampling Method: Bailer ☒ Pump ☐

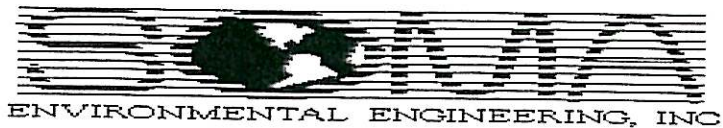
Color: No ☒ Yes ☐ Describe: _____

Sheen: No ☒ Yes ☐ Describe: _____

Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Vol	pH	Temp (°C)	E.C. (μS/cm)
	(gallons)			
11:05 Am	starts purging well			
11:10 Am	4	6.04	21.70	2970
11:15 Am	9	6.09	21.70	2640
11:20 Am	14	6.10	20.80	2620
11:25 Am	19	6.28	20.60	2440
11:30 Am	24	6.11	20.90	2490
11:35 Am	28	6.11	20.90	2500
11:38 Am	samples			



Well No.: MW-6
 Casing Diameter: 2 inches
 Depth of Well: 24.50 feet
 Top of Casing Elevation: 102.16 feet
 Depth to Groundwater: 7.34 feet
 Groundwater Elevation: 94.82 feet
 Water Column Height: 17.16 feet
 Purged Volume: _____ gallons

Project No.: 2871
 Address: 3705 Gravenstein Hwy, South
 Sebastopol, CA
 Date: August 18, 2006
 Sampler: ~~John Lehman~~ Tony Perini
 Masoud Marsai

Purging Method: Bailer ☐ Pump ☒
 Sampling Method: Bailer ☒ Pump ☐

Color: No ☒ Yes ☐ Describe: _____
 Sheen: No ☒ Yes ☐ Describe: _____
 Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Vol	pH	Temp	E.C.
	(gallons)		(°C)	(μS/cm)
1:37 PM	starts purging well			
1:40 PM	3	5.46	24.20	72
1:43 PM	7	5.32	22.60	72
1:45 PM	10	5.46	21.60	78
1:51 PM	17	5.56	20.80	82
1:55 PM	sampled			

notes:

- need to extend 2" casing, casing cracked
- groundwater was silty could only fill 3-404s



Well No.: MW-7
 Casing Diameter: 2 inches
 Depth of Well: 24.50 feet
 Top of Casing Elevation: 101.86 feet
 Depth to Groundwater: 7.38 feet
 Groundwater Elevation: 94.48 feet
 Water Column Height: 17.12 feet
 Purged Volume: _____ gallons

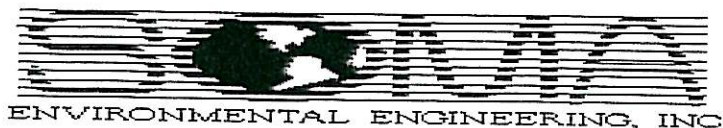
Project No.: 2871
 Address: 3705 Gravenstein Hwy, South
 Sebastopol, CA
 Date: August 16 ~~17~~, 2006
 Sampler: ~~John Lehman~~ TONY PERINI
 Masoud Marsai

Purging Method: Bailer ☐ Pump ☒
 Sampling Method: Bailer ☒ Pump ☐

Color: No ☐ Yes ☒ Describe: cloudy
 Sheen: No ☒ Yes ☐ Describe: _____
 Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Vol	pH	Temp	E.C.
	(gallons)		(°C)	(µS/cm)
2:45 PM	started purging well			
2:49 PM	3.5	5.88	24.40	1810
2:52 PM	7	5.97	21.10	2340
2:54 PM	9	DRIED		
2:56 PM	sampled			



Well No.: MW-8
 Casing Diameter: 2 inches
 Depth of Well: 24.55 feet
 Top of Casing Elevation: 101.23 feet
 Depth to Groundwater: 6.78 feet
 Groundwater Elevation: 94.45 feet
 Water Column Height: 17.77 feet
 Purged Volume: _____ gallons

Project No.: 2871
 Address: 3705 Gravenstein Hwy, South
 Sebastopol, CA
 Date: August 16 ~~15~~ 2006
 Sampler: ~~John Lohman~~ Tony Perini
 Masoud Marsai

Purging Method: Bailer ☐ Pump ☒

Sampling Method: Bailer ☒ Pump ☐

Color: No ☐ Yes ☒ Describe: cloudy
 Sheen: No ☒ Yes ☐ Describe: _____
 Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Vol	pH	Temp	E.C.
	(gallons)		(°C)	(µS/cm)
2:05 PM	started purging well			
2:08 PM	3.5	6.29	23.20	570
2:12 PM	7	6.25	21.30	710
2:14 PM	10.5	6.25	19.40	930
2:18 PM	14	6.25	19.50	920
2:20 PM	samples			



Well No.: MW-9
 Casing Diameter: 2 inches
 Depth of Well: 24.48 feet
 Top of Casing Elevation: 100.79 feet
 Depth to Groundwater: 6.28 feet
 Groundwater Elevation: 94.51 feet 13.98
 Water Column Height: 17.70 feet
 Purged Volume: 14 gallons

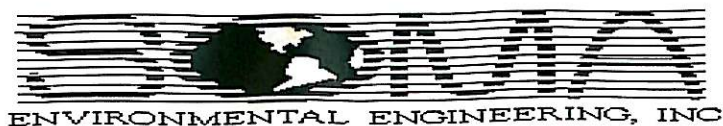
Project No.: 2871
 Address: 3705 Gravenstein Hwy, South
 Sebastopol, CA
 Date: August 16 ~~17~~, 2006
 Sampler: ~~John Lehman~~ TONY PERINI
 Masoud Marsai

Purging Method: Bailer ☐ Pump ☒
 Sampling Method: Bailer ☒ Pump ☐

Color: No ☐ Yes ☒ Describe: cloudy
 Sheen: No ☒ Yes ☐ Describe: _____
 Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Vol	pH	Temp	E.C.
	(gallons)		(°C)	(µS/cm)
<u>1:45 PM</u>	<u>starts purging well</u>			
<u>1:49 PM</u>	<u>3.5</u>	<u>6.18</u>	<u>27.80</u>	<u>2050</u>
<u>1:52 PM</u>	<u>7</u>	<u>6.29</u>	<u>21.10</u>	<u>2460</u>
<u>1:55 PM</u>	<u>11</u>	<u>6.28</u>	<u>18.80</u>	<u>1960</u>
<u>1:58 PM</u>	<u>14</u>	<u>6.29</u>	<u>18.30</u>	<u>2020</u>
<u>2 PM</u>	<u>sampled</u>			



Well No.: MW-10
 Casing Diameter: 2 inches
 Depth of Well: 24.68 feet
 Top of Casing Elevation: 98.95 feet
 Depth to Groundwater: 5.02 feet
 Groundwater Elevation: 93.93 feet
 Water Column Height: 19.66 feet
 Purged Volume: _____ gallons

Project No.: 2871
 Address: 3705 Gravenstein Hwy, South
 Sebastopol, CA
 Date: August 16 ~~12~~ 2006
 Sampler: ~~John Lohman~~ Tony Perini
 Masoud Marsai

Purging Method: Bailer ☒ Pump ☒ used Bailer

Sampling Method: Bailer ☒ Pump ☐

Color: No ☐ Yes ☒ Describe: cloudy

Sheen: No ☒ Yes ☐ Describe: _____

Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Vol	pH	Temp	E.C.
	(gallons)		(°C)	(µS/cm)
1:05 PM	started purging well			
1:10 PM	3	6.45	21.40	1300
1:15 PM	6	6.43	19.50	1290
1:30 PM	9	6.43	19.50	1280
1:34 PM	samples			



Well No.: MW-11
 Casing Diameter: 2 inches
 Depth of Well: 24.32 feet
 Top of Casing Elevation: 98.17 feet
 Depth to Groundwater: 4.33 feet
 Groundwater Elevation: 93.84 feet
 Water Column Height: 19.99 feet
 Purged Volume: _____ gallons

Project No.: 2871
 Address: 3705 Gravenstein Hwy, South
 Sebastopol, CA
 Date: August 16 ~~17~~ 2006
 Sampler: ~~John Lehman~~ Tony Perini
 Masoud Marsai

Purging Method: Bailer ☒ Pump ☒ (used baster)

Sampling Method: Bailer ☐ Pump ☐

Color: No ☒ Yes ☒ Describe: cloudy
 Sheen: No ☒ Yes ☐ Describe: _____
 Odor: No ☒ Yes ☐ Describe: _____

Field Measurements:

Time	Vol	pH	Temp	E.C.
	(gallons)		(°C)	(µS/cm)
12:33 PM	started purging well			
12:41 PM	3	6.77	20.11	1370
12:44 PM	6	6.78	18.50	1150
12:54 PM	9	6.78	19.20	1240
12:58 PM	samples			

Appendix C

Chain of Custody Form and Laboratory Report
for the
Third Quarter 2006 Monitoring Event

CHAIN OF CUSTODY FORM

Page 1 of 1

PAL Pacific Analytical Laboratory
851 West Midway Ave., Suite 201B
Alameda, CA 94501
510-864-0364 Telephone
510-864-0365 Fax

PAL
Login# 6080011

Project No: 2871		Sampler: <i>Tony Perini / Masous Masrai</i>		Analyses/Method							
Project Name: 3705 Gravenstein Hwy. S. Sebastopol		Report To: Tony Perini									
		Company: SOMA Environmental Engineering, Inc.									
Turnaround Time: Standard		Tel: 925-734-6400 Fax: 925-734-6401									
Lab No.	Sample ID	Sampling Date/Time		Matrix	# of Containers	Preservatives			Field Notes	Gasoline Oxygenates & Lead Scavengers	MiBE 8260B
		Date	Time			Soil	Water	Waste			
MW-1				X		3 VOAS	X			X	
MW-2		8/17/06	1206 PM	X		3 VOAS	X			X	
MW-3		8/17/06	1150 AM	X		3 VOAS	X			X	
MW-4		8/17/06	125 PM	X		3 VOAS	X			X	
MW-5		8/17/06	1138 AM	X		3 VOAS	X			X	
MW-6		8/17/06	155 PM	X		3 VOAS	X			X	
MW-7		8/16/06	256 PM	X		3 VOAS	X			X	
MW-8		8/16/06	220 PM	X		3 VOAS	X			X	
MW-9		8/16/06	2 PM	X		3 VOAS	X			X	
MW-10		8/16/06	1:34 PM	X		3 VOAS	X			X	
MW-11		8/16/06	1258 PM	X		3 VOAS	X			X	
Sampler Remarks:				Relinquished by:		Date/Time:		Received by:		Date/Time:	
EDF Output Required TBA only on well MW-8 MiBE on all wells				<i>M. Zall</i>		8/17/06 4:00 PM		<i>Jane Griny</i>		8/17/06 4:00 PM	

28 August 2006

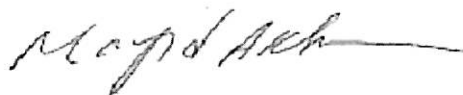
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 3705 Gravenstein Hwy. S., Sebastopol

Work Order Number: 6080011

This Laboratory report has been reviewed for technical correctness and completeness. This entire report was reviewed and approved by the Laboratory Director or the Director's designee, as verified by the following signature.

Sincerely,



Majid Akhavan
Laboratory Director



SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton CA, 94588

Project: 3705 Gravenstein Hwy. S., Sebastopol
Project Number: 2871
Project Manager: Mansour Sepehr

Reported:
28-Aug-06 13:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	6080011-01	Water	17-Aug-06 12:06	17-Aug-06 15:56
MW-3	6080011-02	Water	17-Aug-06 11:50	17-Aug-06 15:56
MW-4	6080011-03	Water	17-Aug-06 13:25	17-Aug-06 15:56
MW-5	6080011-04	Water	17-Aug-06 11:38	17-Aug-06 15:56
MW-6	6080011-05	Water	17-Aug-06 13:55	17-Aug-06 15:56
MW-7	6080011-06	Water	16-Aug-06 14:56	17-Aug-06 15:56
MW-8	6080011-07	Water	16-Aug-06 14:20	17-Aug-06 15:56
MW-9	6080011-08	Water	16-Aug-06 14:00	17-Aug-06 15:56
MW-10	6080011-09	Water	16-Aug-06 13:34	17-Aug-06 15:56
MW-11	6080011-10	Water	16-Aug-06 12:58	17-Aug-06 15:56



SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton CA, 94588

Project: 3705 Gravenstein Hwy. S., Sebastopol
Project Number: 2871
Project Manager: Mansour Sepehr

Reported:
28-Aug-06 13:50

Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (6080011-01) Water Sampled: 17-Aug-06 12:06 Received: 17-Aug-06 15:56									
MTBE	1.29	0.500	ug/l	1	BH62201	17-Aug-06	21-Aug-06	8260B	
Surrogate: 4-Bromofluorobenzene		86.8 %	0-200		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	0-200		"	"	"	"	
Surrogate: Perdeuterotoluene		86.8 %	0-200		"	"	"	"	
MW-3 (6080011-02) Water Sampled: 17-Aug-06 11:50 Received: 17-Aug-06 15:56									
MTBE	1.98	0.500	ug/l	1	BH62201	17-Aug-06	21-Aug-06	8260B	
Surrogate: 4-Bromofluorobenzene		86.6 %	0-200		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	0-200		"	"	"	"	
Surrogate: Perdeuterotoluene		87.8 %	0-200		"	"	"	"	
MW-4 (6080011-03) Water Sampled: 17-Aug-06 13:25 Received: 17-Aug-06 15:56									
MTBE	ND	0.500	ug/l	1	BH62201	17-Aug-06	21-Aug-06	8260B	
Surrogate: 4-Bromofluorobenzene		87.4 %	0-200		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	0-200		"	"	"	"	
Surrogate: Perdeuterotoluene		87.4 %	0-200		"	"	"	"	
MW-5 (6080011-04) Water Sampled: 17-Aug-06 11:38 Received: 17-Aug-06 15:56									
MTBE	ND	0.500	ug/l	1	BH62201	17-Aug-06	21-Aug-06	8260B	
Surrogate: 4-Bromofluorobenzene		85.8 %	0-200		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	0-200		"	"	"	"	
Surrogate: Perdeuterotoluene		88.6 %	0-200		"	"	"	"	
MW-6 (6080011-05) Water Sampled: 17-Aug-06 13:55 Received: 17-Aug-06 15:56									
MTBE	ND	0.500	ug/l	1	BH62201	17-Aug-06	21-Aug-06	8260B	
Surrogate: 4-Bromofluorobenzene		86.8 %	0-200		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	0-200		"	"	"	"	
Surrogate: Perdeuterotoluene		87.8 %	0-200		"	"	"	"	

Pacific Analytical Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton CA, 94588

Project: 3705 Gravenstein Hwy. S., Sebastopol
Project Number: 2871
Project Manager: Mansour Sepehr

Reported:
28-Aug-06 13:50

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (6080011-06) Water Sampled: 16-Aug-06 14:56 Received: 17-Aug-06 15:56									
MTBE	1.76	0.500	ug/l	1	BH62201	17-Aug-06	21-Aug-06	8260B	
Surrogate: 4-Bromofluorobenzene		85.4 %	0-200		"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	0-200		"	"	"	"	
Surrogate: Perdeuterotoluene		89.6 %	0-200		"	"	"	"	
MW-8 (6080011-07) Water Sampled: 16-Aug-06 14:20 Received: 17-Aug-06 15:56									
MTBE	26.1	0.500	ug/l	1	BH62201	17-Aug-06	21-Aug-06	8260B	
Surrogate: 4-Bromofluorobenzene		84.4 %	0-200		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	0-200		"	"	"	"	
Surrogate: Perdeuterotoluene		88.6 %	0-200		"	"	"	"	
TBA	ND	10.0	"	"	"	"	"	"	
MW-9 (6080011-08) Water Sampled: 16-Aug-06 14:00 Received: 17-Aug-06 15:56									
MTBE	ND	0.500	ug/l	1	BH62201	17-Aug-06	21-Aug-06	EPA 8260B	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	ND	10.0	"	"	"	"	"	"	
1,2-Dibromoethan	ND	0.500	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		89.4 %	70-130		"	"	"	"	
MW-10 (6080011-09) Water Sampled: 16-Aug-06 13:34 Received: 17-Aug-06 15:56									
MTBE	ND	0.500	ug/l	1	BH62201	17-Aug-06	21-Aug-06	EPA 8260B	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	ND	10.0	"	"	"	"	"	"	
1,2-Dibromoethan	ND	0.500	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.6 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		90.0 %	70-130		"	"	"	"	

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton CA, 94588

Project: 3705 Gravenstein Hwy. S., Sebastopol
Project Number: 2871
Project Manager: Mansour Sepehr

Reported:
28-Aug-06 13:50

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (6080011-10) Water Sampled: 16-Aug-06 12:58 Received: 17-Aug-06 15:56									
MTBE	ND	0.500	ug/l	1	BH62201	17-Aug-06	21-Aug-06	EPA 8260B	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	ND	10.0	"	"	"	"	"	"	
1,2-Dibromoethan	ND	0.500	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		90.4 %	70-130		"	"	"	"	

SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton CA, 94588

Project: 3705 Gravenstein Hwy. S., Sebastopol
Project Number: 2871
Project Manager: Mansour Sepehr

Reported:
28-Aug-06 13:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch BH62201 - EPA 5030 Water MS									
Blank (BH62201-BLK1)				Prepared & Analyzed: 22-Aug-06					
Surrogate: 4-Bromofluorobenzene	43.8		ug/l	50.0		87.6	70-130		
Surrogate: Dibromofluoromethane	49.8		"	50.0		99.6	70-130		
Surrogate: Perdeuterotoluene	43.5		"	50.0		87.0	70-130		
MTBE	ND	0.500	"						
DIPE	ND	0.500	"						
ETBE	ND	0.500	"						
TAME	ND	2.00	"						
TBA	ND	10.0	"						
1,2-Dibromochloroethane	ND	0.500	"						
1,2-dichloroethane	ND	0.500	"						
LCS (BH62201-BS1)				Prepared & Analyzed: 22-Aug-06					
Surrogate: 4-Bromofluorobenzene	49.6		ug/l	50.0		99.2	70-130		
Surrogate: Dibromofluoromethane	45.3		"	50.0		90.6	70-130		
Surrogate: Perdeuterotoluene	42.8		"	50.0		85.6	70-130		
MTBE	80.8	0.500	"	100		80.8	70-130		
ETBE	71.0	0.500	"	100		71.0	70-130		
TBA	518	10.0	"	500		104	70-130		
LCS Dup (BH62201-BSD1)				Prepared & Analyzed: 22-Aug-06					
Surrogate: 4-Bromofluorobenzene	51.5		ug/l	50.0		103	70-130		
Surrogate: Dibromofluoromethane	45.0		"	50.0		90.0	70-130		
Surrogate: Perdeuterotoluene	42.2		"	50.0		84.4	70-130		
MTBE	88.5	0.500	"	100		88.5	70-130	9.10	20
ETBE	76.0	0.500	"	100		76.0	70-130	6.80	20
TBA	588	10.0	"	500		118	70-130	12.7	20



SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton CA, 94588

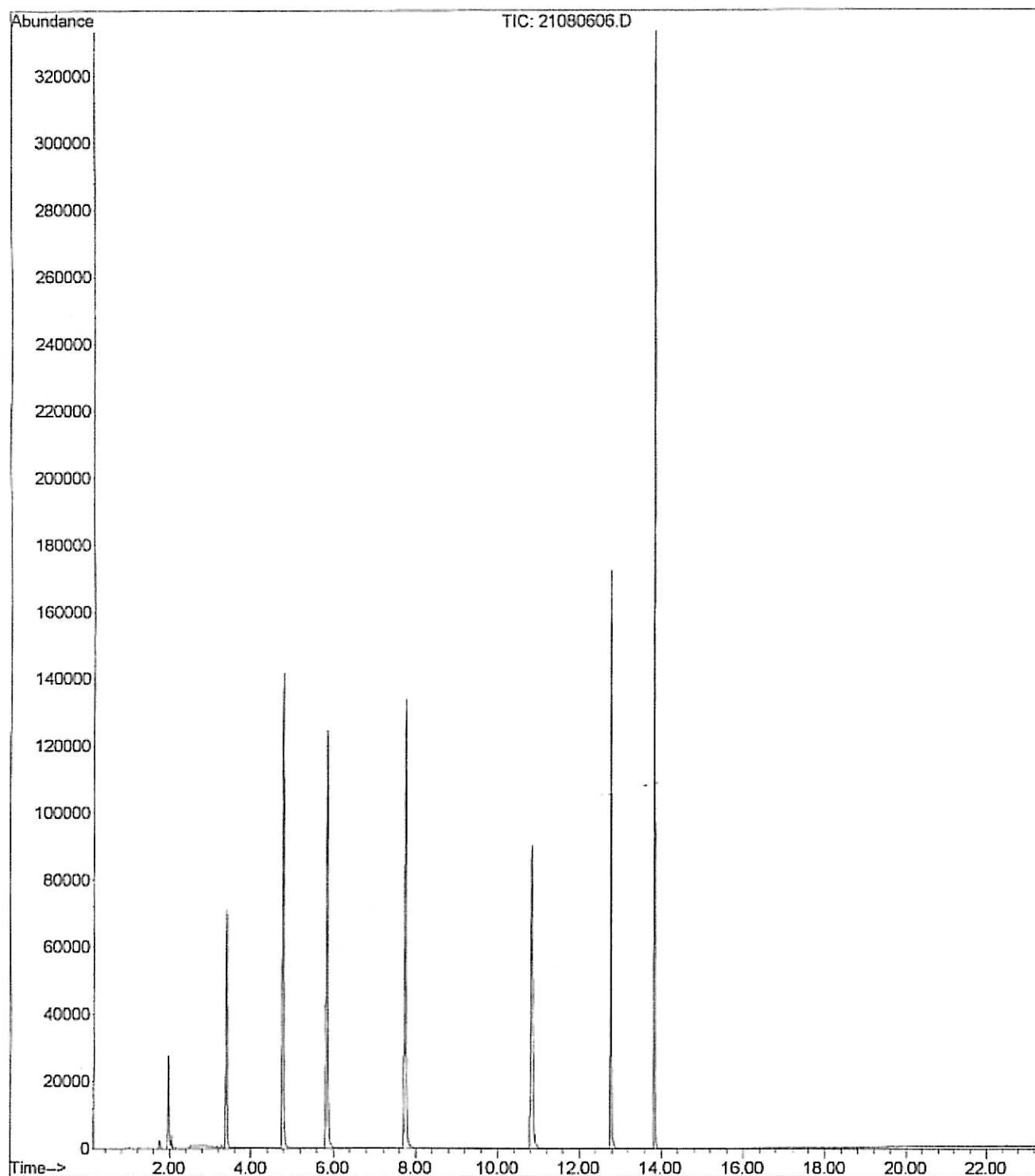
Project: 3705 Gravenstein Hwy. S., Sebastopol
Project Number: 2871
Project Manager: Mansour Sepehr

Reported:
28-Aug-06 13:50

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

File :C:\MSDChem\1\DATA\2006-Aug-21-1153.b\21080606.D
Operator :
Acquired : 21 Aug 2006 2:59 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BH62201-BLK1
Misc Info :
Vial Number: 6



File :C:\MSDCHEM\1\DATA\2006-Aug-21-1153.b\21080602.D
Operator :
Acquired : 21 Aug 2006 12:42 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BH62201-BS1@voc
Misc Info :
Vial Number: 2

